

**TOTAL PHOSPHORUS OR ORTHOPHOSPHATE BY AUTOMATED ASCORBIC ACID REDUCTION METHOD  
SM 19<sup>th</sup> Ed 4500-P F**

Facility Name: \_\_\_\_\_ VELAP ID \_\_\_\_\_

Assessor Name: \_\_\_\_\_ Analyst Name: \_\_\_\_\_ Inspection Date \_\_\_\_\_

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
------------------------------	------------------	---	---	-----	----------

Records Examined: SOP Number/ Revision/ Date \_\_\_\_\_ Analyst: \_\_\_\_\_

Sample ID: \_\_\_\_\_ Date of Sample Preparation: \_\_\_\_\_ Date of Analysis: \_\_\_\_\_

Was the <b>sum</b> of duplicates and matrix spikes analyzed equal to the rate of 10% of samples?	1020 B.2				
Were duplicates analyzed at a rate of 5% of samples?	1020 B.6				
Was minimum of 5% of the sample load analyzed as reagent blanks?	1020 B.4				
When Total Phosphorus was analyzed, was the appropriate digestion step used?	4500-P A.3.a				
Was Potassium Antimonyl Tartrate Solution prepared by dissolving 0.3 g K(SbO)C <sub>2</sub> H <sub>4</sub> O <sub>6</sub> •1/2H <sub>2</sub> O in 50 mL distilled water?	4500-P F.3.a				
Was Potassium Antimonyl Tartrate Solution stored at 4°C in the dark?	4500-P F.3.a				
Was Ammonium Molybdate Solution prepared by dissolving 4 g (NH <sub>3</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> •4H <sub>2</sub> O in 100 mL distilled water?	4500-P F.3.b				
Was Ammonium Molybdate Solution stored at 4°C in a plastic bottle?	4500-P F.3.b				
Is the combined reagent made fresh using the following proportions for 100 mL of the combined reagent? 50 mL 5N H <sub>2</sub> SO <sub>4</sub> , 5 mL potassium antimonyl tartrate solution, 15 mL ammonium molybdate solution, and 30 mL ascorbic acid solution in the order listed? (4500-P E.3.e)	4500-P F.3.d				
Was Ascorbic Acid Solution prepared according to SM 19 <sup>th</sup> 4500-P E.3.d?	4500-P F.3.c				
Is ascorbic acid solution kept for no longer than about 1 week and stored at 4°C? (4500-P E.3.d)	4500-P F.3.c				

Notes/Comments:

